User Job Number Prsht Rev. First Issue Previous Run Written By Comment Job Number: Seq. #:

Thursday, 3/13/2008 10:17:51 AM

Kim Johnston

**Process Sheet** 

Customer : CU-DAR001 Dart Helicopters Services

: 37913 **Estimate Number** : 11924

P.O. Number

This Issue

: 3/13/2008

S.O. No. :

: NC

: // : 29934 Type

: SMALL /MED FAB

Part Number **Drawing Number** 

**Drawing Name** 

: D2003103 : UNDER REVIEW : N/A

: B

: TUBE ASSEMBLY

Project Number **Drawing Revision** 

Material

Due Date : 3/28/2008

5 Um:

Each

Checked & Approved By

Est.

03.03.31

Reformat KJ/RF

Additional Product



1.0

**Machine Or Operation:** 

Description:

6061-T6 Tube .375 x.035W

M6061T6T0375W035

Comment: Qty.:

1.1025 f(s)/Unit Total: 5.5125 f(s)

Cut tube Ø 0.375" x 0.035" wall as per template D2003-103T1 (12.00" long)

Material: 6061-T6 WW-T-600/6 (M6061T6T0.375W.035)

M26506

08-03-2

2.0

Firesleeve-crkl .375IDia



Comment: Qty.:

5.4138 f(s) 1.0828 f(s)/Unit

Qty Part Number Description 1 M2650-6

Heat Sleeve

3.0

D2182045



5.0000 Each(s)



Comment: Qty...

1.0000 Each(s)/Unit Heat Shrink

Total:

Pick: **Qty Part Number** 

Description 1 D2182-045 Heat shrink

08-03-2

4.0

SMALL FAB 1



Comment: SMALL & MEDIUM FAB RESOURCE 1

Cut 12.38" long Heat sleeve as per Dwg D2003 & heat shrink

Form tube as per template D2003-103T2

## Dart Aerospace Ltd

W/O:		WORK ORDER CH	WORK ORDER CHANGES												
DATE	STEP	PROCEDURE CHANGE	Ву		Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector							
			;												
Part No	:	PAR #: Fault Category:	NCR: `	Yes	No DQ	<b>\</b> :	Date:								
			C	) <b>A</b> : N	I/C Close	i.	Date:								

NCR:		WORK ORDER NON-CONFORMANCE (NCR)												
DATE		Description of NC		Corrective Action Section B	Varification		Ι							
	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector						
								***						
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NOTE: Date & initial all entries

Thursday, 3/13/2008 10:17:51 AM Date: User: Kim Johnston **Process Sheet** Drawing Name: TUBE ASSEMBLY Customer: CU-DAR001 Dart Helicopters Services Part Number: D2003103 Job Number: 37913 Job Number: Description: Seq. #: Machine Or Operation: INSPECT WORK TO CURRENT STEP 5.0 QC5 Comment: INSPECT WORK TO CURRENT STEP AN/8186D Nut 6.0 Comment: Qty.: 10.0000 Each(s) 2.0000 Each(s)/Unit Total: Nut Pick: Description Batch Qty Part Number AN818-6D Nut 7.0 MS208196D Comment: Qty.: 2.0000 Each(s)/Unit Total: 10.0000 Each(s) Sleeve Pick: Part Number Description Batch FF 08-03-27 MS20819-6D Sleeve SMALL FAB 8.0 Comment: SMALL & MEDIUM FAB RESOURCE 1 Assemble as per Dwg D2003 Install Red decal and heat shrink as per PPP D2003-103 QC5 INSPECT WORK TO CURRENT STEP 9:0 Comment: INSPECT WORK TO CURRENT STEP 10.0 PACKAGING RESOURCE #1 PACKAGING 1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: 11.0 QC21 FINAL INSPECTIONAVIO RELEASE Comment: FINAL INSPECTION/W/O RELEASE Job Completion

Page 2

Form: mrocess

## **Dart Aerospace Ltd**

W/O:			WORK ORDER CHANGES													
DATE	STEP		PROCEDURE CHANGE	- F	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector							
D . 4 N -		40/4														

Part No:	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
		•	QA: N/C	Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)												
		Description of NC		Corrective Action Section B	Verification		A							
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector						
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NOTE: Date & initial all entries





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99.0	06.08	<del></del>	206 CABIN HEATER TUBE ASSEMBLIES NTS							
Α		90.04.09	NEW ISSUE							
В		99.06.08	UPDATE PER TEMPLATES; ADD P/N'S;							

RELEASED 44.06.08 KED

UNDER REVIEW Some Flot

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		HEATSLEEVE LENGTH¹	CUT LENGTH OF TUBE <sup>2</sup>	MS20819-8J SLEEVE	AN818-8J NUT	MS20819-8D SLEEVE	AN818-8D NUT	MS20819-6D SLEEVE	AN818-6D NUT			VENDOR OR
P/N	TEMPLATE	<u> </u>	0.0		-		4	<u> </u>		DESC.	MATERIAL 4/8/7	SPEC
D2003-001	T2003-001	5.2	6.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-003	T2003-003	7.3	8.12					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-005	T2003-005	9.8	10.62					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-007	T2003-007	20.0	19.63					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-009	T2003-009	12.38	12.44					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-011	T2003-011	33.31	32.38					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-013	T2003-013	12.7	13,54					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-015	T2003-015	17.2	18.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-017	T2003-017	17.0	16.25					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-019	T2003-019	9.8	10.62			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-021	T2003-021	N/A	2.25			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-023	T2003-023	4.5	5.33			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-025	T2003-025	9.8	10.60			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-027	T2003-027	7.25	7.38			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-029	T2003-029	17.2	18.00			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-031	T2003-031	14.6	15.38	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-033	T2003-033	29.75	29.62	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-035	T2003-035	24.7	27.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-037	T2003-037	24.81	23.38	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-039	T2003-039	34.0	34.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-041	T2003-041	6.0	5.88	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-043	T2003-043	11.7	10.75	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-045	T2003-045	3.50	2.44	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-047	T2003-047	5.56	5.56	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-049	T2003-049	33.2	34.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-077	T2003-077	N/A	6.25	1				1	1	JET	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-101	T2003-101	13.25	13.13					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-103	T2003-103	12.38	12.00		4 O	2.03	27	2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-105	T2003-105	10.75	10.60		٠		-	2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-107	T2003-107	12.75	12.25					2	2	TUBE ASS'Y	6061-T6 0,375 OD x 0.035 W	WW-T-600/6
D2003-109	T2003-109	8.25	8.125			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-111	T2003-111	4.75	4.625			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-116	T2003-116	4.0								HEATSLEEVE	M2650-20 CRINKLE-SOFT	STRATOFLEX
D2003-120	T2003-120	4.0								HEATSLEEVE	M2650-16 CRINKLE-SOFT	STRATOFLEX
D2003-14	T2003-14	4.0	i							HEATSLEEVE	M2650-14 CRINKLE-SOFT	STRATOFLEX
D2003-16	T2003-16	4.0								HEATSLEEVE	M2650-16 CRINKLE-SOF本	STRATOFLEX
D2003-205	T2003-205	9.75	9.60					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	™ WW-T-700/6
D2003-207	T2003-207	3.75	3.75					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035/W	FRWW-T-700/6
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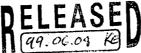
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99.06.08		206 CABIN HEAT	TER TUBE ASSEMBLIES NTS	1





## UNDER

## Notes:

- (1) USE STRATOFLEX M2650-6 CRINKLE-SOFT HEATSLEEVE.
- (2) TUBING ASSEMBLIES TO BE CUT AND BENT IN ACCORDANCE WITH TEMPLATES.
- (3) TUBES TO BE FLARED 30° TO MATE WITH FITTINGS MADE TO MS33514.
- (4) ENSURE SEAMLESS TUBING IS USED.
- (5) INSTALL HEATSLEEVE OVER ALL TUBES WITH A DESIGNATED LENGTH OF HEATSLEEVE PER THE PARTS LIST.
- (6) 5052 (WW-T-700/4) TUBING MAY BE SUBSTITUTED WHEN 6061 TUBING IS NOT AVAILABLE.
- (7) 0.049 WALL THICKNESS CRES TUBING MAY BE SUBSTITUTED WHEN 0.035 IS NOT AVAILABLE.
- (8) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.

